

## P2 COMMITTEE ACTIVITIES AND TARGETS – Short Term (FY – 2005)

	<b>ACTIVITIES (PROJECT LEADER)</b>	<b>TARGET</b>	<b>UPDATE</b>
1.	Reduction of chemicals at PBS (Lallier / Muscolo)	All 4 major facilities: a.) Assessed for excessive chemicals b.) Chemicals disposed or recycled	Muscolo and Quintin to assist PBOSG in conducting the annual chemical inventory and bar-coding procedure.
2.	Implement AP/EPP at PBS (Kocher / Sekura)	One training session / up on Website	L. Sekura putting together a standard Sustainability / EPP presentation. Kocher and Lallier to edit. Eventually, presentation will be used for training any group and geared toward specific audiences as needed.
3.	Natural lawn care (Sekura)	Implement organic program	L. Sekura spoke with Phil Kall. Kall and Sekura to meet after Facilities gets a budget.
4.	Garnet Recycling (Kocher)	Complete installation, optimize performance & implement	Installation complete. A video is planned for the P2 website. D. White accepted the final report.
5.	Garnet recycling tech transfer (Kocher)	Investigate business-wide applications	Once the video is on the website, W. Kocher will contact Marshall to see if they are interested.
6.	Life Cycle Assessment (Kocher / Sekura)	Determine and implement 2 application-specific tools	L. Sekura finishing up lawn care, light bulb, flywheel, LCA analysis. Sekura has started road salt LCA.
7.	Develop a web-based P2/Recycling training module (Kenzig / Kocher / Sekura)	Make available	M. Kenzig working on second draft of training module.
8.	AP/EPP web site (Kocher/Sekura)	Develop analytical tool	Linda and Yod met to discuss. Yod working on this over vacation.
9.	Create SAGE-like program to recommend P2 alternatives (Kocher)	Make search tool available on net for GRC	Walt to follow up with a CSU student (Zhiguo) working on the project.
10.	Market AP/EPP site NASA-wide (Kocher / Kenzig / Myers)	Implement AP/EPP on GoLearn.com or similar	Walt will work with CSU and local environmental groups as a test and to spread awareness of the project.

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11.	Determine strategic plan to include AP/EPP language in contracts (Kenzig / Myers)	Create clause language and incorporate into five contracts	Need Michelle's input. (Cafeteria SOW sustainability language should end up in cafeteria contract, partially fulfilling 1 of 5 contract targets.)
12.	Replace Stoddard Solvent as degreaser in Space Environment Chamber at PBS (Sekura / Lallier)	Replace with EPP degreaser	Received sample cleaner from Linda and passed to SPF. Conducted a comparison test with ethanol and sent test wipes to Goddard for analysis. No results on the effectiveness of the cleaner yet. Joe Moore (PBS) staff also tested New II week of 10/29. R. Lallier to follow up to receive the results from Moore.
13.	Study of low-strength mortar and flowable fill containing recycled material (Kocher)	Develop guidance document	W. Kocher needed to finish report by end of 2004. R. Palyo needs the report to set up a meeting to discuss implementation.
14.	Install sustainable cooling towers at SPF (Lallier)	Conduct feasibility study	Contacted facility manager regarding pilot/feasibility test and he is all for it if we can get funding from HQ. Also pursuing the possibility of installing system on the new cooling tower scheduled for the 2006 Eng Bldg CoF project. Lallier to contact Project Manager and Mr. Frano.
15.	AP/EPP Chapter (Kenzig / Kocher / Sekura)	Publish chapter(s)	M. Kenzig discussing possible split of AP and EPP with M. Blotzer.
16.	Spark plug / energy efficiency (Sekura)	Complete study	Testing completed. Efficiency did not improve as much as anticipated. Complete
17.	Add 5 products to AP/EPP list (Sekura)	5 EPP products posted on AP/EPP site	Working on light bulbs, paper, and several other product categories. Want to focus on AP-type (EPA/CPG-listed) products.
18.	Water conservation for cooling tower maintenance (Sekura / White)	Use rental portable unit to save water during shutdown	L. Sekura to continue working with L. Shroeder to discuss options.

## P2 COMMITTEE ACTIVITIES AND TARGETS – Long Term (FY – 2005)

	ACTIVITIES	FY- 05 TARGET	LONG TERM GOAL
1.	Real Time Monitoring pilot study at GRC – Lewis Field (Kocher)	Secure funding for a prototype unit	Funding still needed. Project may begin moving forward in the last half of CY 2005.
2.	Replace large Iridite uses (Sekura)	Performance testing done	MIL spec includes chromate. This is a dead issue until GRC specs change or a new chemical developed
3.	Native landscaping (Sekura)	Implement pilot program	See below (4), plus will have other proposals.
4.	Soil pile prairie – West & Cryogenic (Walker/Buttler/Sekura)	Plant prairie	Buttler (Pheasants Forever) seed at GRC. Roto tilling to take place in spring 2005.
5.	Biodegradable cafeteria supplies (Sekura)	Implement pilot program	Linda to begin cafeteria plan. Step 0: Education of users so they will be willing to use napkins made of recycled material. Step 1: Use of recycled-content napkins.
6.	Cafeteria GRC-wide composting (Kennedy / Kocher)	Implement pilot program	P. Kennedy to conduct dumpster diving inventory (food and stick audit).
7.	New cafeteria set-up (Sekura)	Integrate sustainability concepts	Mark Betlejewski is on a team tasked with contracting out the cafeteria job. The contract that went out for bid now includes pro-P2 language. Won't be implemented until April, at least.
8.	Convert EMO and other GRC vehicles to CNG/other alt. (Strawser)	All new/replacement vehicles capable of using alternative fuel	In May 2004, 14 vehicles were replaced with E85 models. Others will be added each year. It took 16 months to use up the first 8500 gallon delivery of E85.
9.	Renewable energy at Lewis Field (Quach / F. Miller)	Produce some form of renewable energy at Lewis Field to feed back into grid, remove an area from grid, or use power for a project instead of grid.	Negotiations with power company in progress. Note that GRC gets a credit from work in a Building 5 test cell that puts power into the power grid
10.	Renewable energy at PBS (F. Miller / Quach)	Same as #9 – at PBS.	F. Miller is in contact with PBS personnel.

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11.	Assist in providing wind power from Lake Erie (F. Miller)	Assist in GEO project by receiving data at NASA antenna – Target achieved when wind monitoring study completed.	Need status from F. Miller.
12.	Initiate one NASA hydrogen power project (Sekura / Hoberecht / Prokopius)	Consensus is achieved by Hydrogen Power Working Group and funding is secured.	Proposal for NASA-wide hydrogen fueling stations, starting with GRC and KSC. Proposal sent to HQ.
13.	Hydrogen power production at GRC (Sekura / Hoberecht / Prokopius)	Hydrogen is produced at GRC for a project, or a dispenser is working.	See above (#13).
14.	Hydrogen powered fleet (Sekura / Hoberecht / Prokopius )	GRC has at least one working hydrogen car	See above (#13).
15.	Sustainable cooling towers at GRC (Lallier / Myers)	Implement 1 tower – Eliminate disinfectant and/or minimize water use	See short-term goals (#13).
16.	Laser paint removal in Hangar (Sekura)	Make case for laser equipment at GRC	KSC got \$50,000 in funding for non-Shuttle applications. Telecon to discuss requirement begin in February.
17.	Environmental management certification courses (Kocher/White)	Offer one course	On track for target.